



7<sup>th</sup> Germany-Japan ICT Policy Dialogue  
Industry-Government

# FUJITSU Open RAN Solution

Naoto Sato

Head of Mobile Solution Business Div.  
Fujitsu Limited

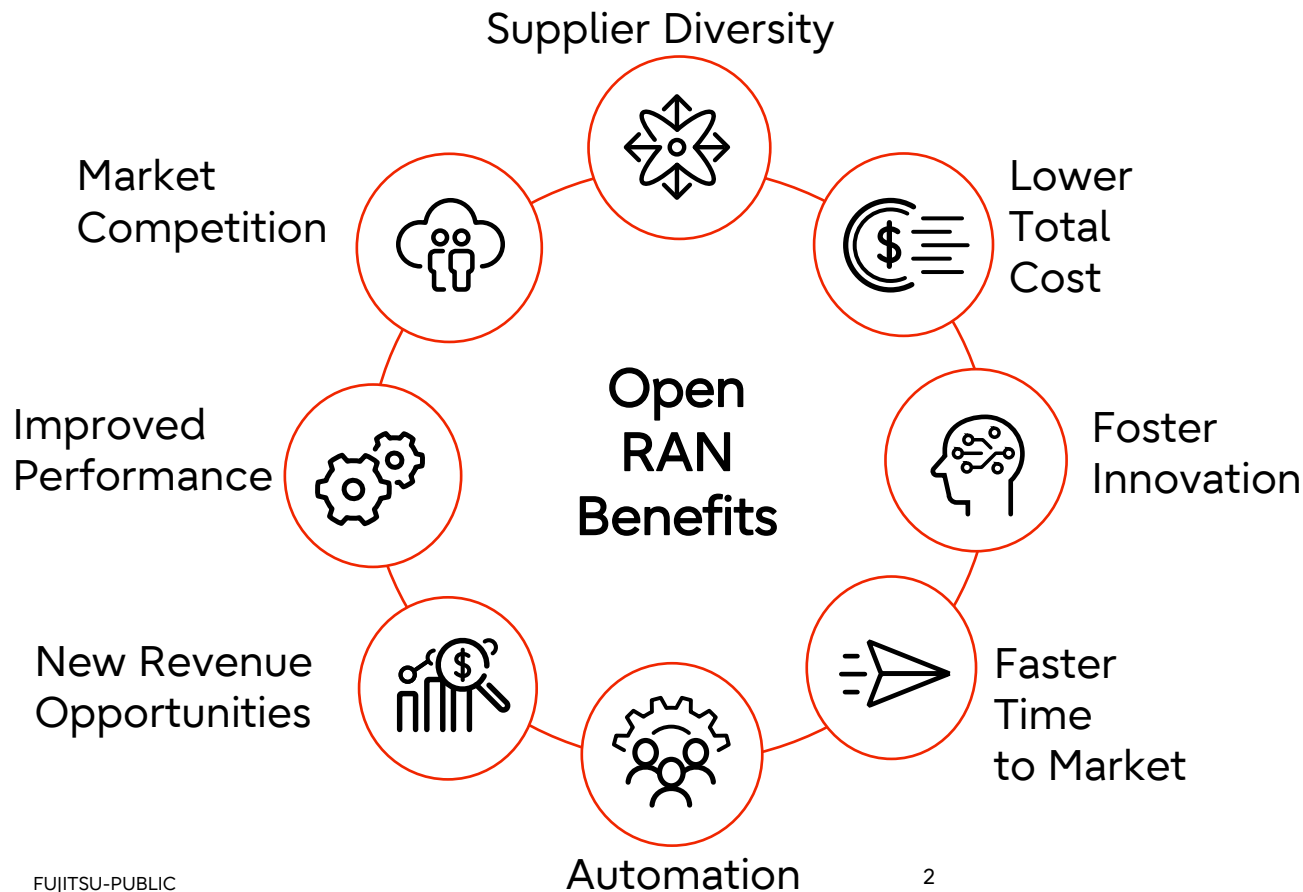
June 21<sup>st</sup>, 2023

FUJITSU-PUBLIC



© 2023 Fujitsu Limited

# Open RAN benefits



Architecture built around  
use cases rather than  
around vendors

Open RAN will foster  
innovation across  
industries

# 5G vRAN AIO(All In One) Edge Solution



**Fujitsu 5G utilizes GPUs to AI processing and 5G processing on a single server**



**Realization of extra-low latency services**

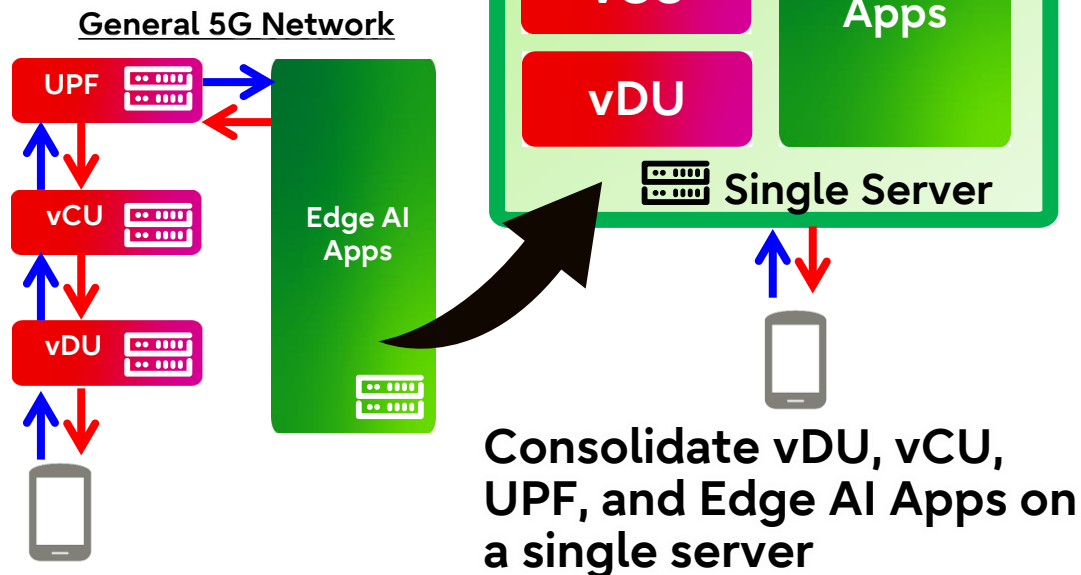


**Realization of small compact footprint**

The technology for this product utilizes part of the results of the "Research and Development of Enhanced Infrastructures for Post-5G Information Communication Systems" (JPNP20017) of the New Energy and Industrial Technology Development Organization (NEDO).

# 5G vRAN AIO(All In One) Edge Solution

## 5G vRAN AIO Edge Solution



**Enterprise services  
with extra low latency**

### Smart places



### Industrial



### Media & Entertainment



### Retail







## Carbon Neutral

Dynamic resource allocation using digital annealers & AI technology to save power



## Edge Site Reduction

Reduction by extending fronthaul and reducing L1 and L2 processing time



## Service Deployment with less equipment

Minimizing equipment by maximizing the performance of accelerator cards.

Step  
**1**

Automate Network  
Operation by AI

Step  
**2**

Network Optimization  
Based on Individual QoE



Achieve both required QoS  
and cost efficiency by AI



Maximize user satisfaction through QoE  
based on human cognitive models

## DevSecOps

for 5G Open RAN

\*RIC : RAN Intelligent Controller  
\*ORAN SOC : ORAN Security Operation Center  
\*SIEM : Security information and event management

### Security By Design

Consider cybersecurity at the onset

### Secure Coding

Weeding out the risk of software vulnerabilities

### Credible Testing

ORAN-compliant testing



### Logging

Prepare for prompt and appropriate reaction to security incidents



### Detection of Attack and Anomaly

multiple sources



### Event management

Comprehensive analysis of external security information and decision making



## Fujitsu - Deutsche Telekom

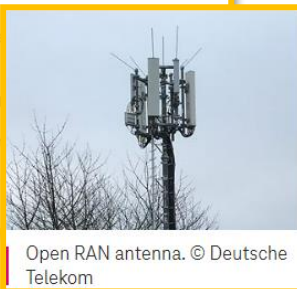
Contributing to Deutsche Telekom's O-RAN Commercial Expansion



Media | 02-27-2023 | Stephan Broszio | 0 Comments

### First commercial deployment of Open RAN with multiple partners

- Deutsche Telekom pushes forward with its strategy to finalize open RAN solution for network modernization
- Customers to receive 2G, 4G and 5G services via open fronthaul based network deployment
- Nokia and Fujitsu chosen as partners for initial multi-vendor deployment in Germany
- Mavenir chosen as partner for a multi-vendor deployment including mMIMO in DT in 2023



<https://www.telekom.com/en/media/media-information/archive/first-commercial-open-ran-in-2023-1027618>

## Mobile Integration and Testing Center (MITC)

Fujitsu Network Communications, Inc.  
Development, Services, Manufacturing etc  
(Texas, USA)





# Thank you

